

PATENT APPLICATION

stations are responsive to the congestion signal to temporarily store at least some of the data to be transferred via the respective switching node, the data for storage being selected in accordance with the priority number.

3. A communications network according to claim 2, wherein the second predetermined threshold corresponds to a lower volume of traffic than the first predetermined threshold.
4. A communications network according to claim 2, wherein the second predetermined threshold equals the first predetermined threshold.
5. A communications network according to claim 1, wherein the monitor monitors the amount of data stored in the store.
6. A communications network according to claim 1, wherein the first predetermined threshold comprises a number of predetermined sub-thresholds, the congestion signal including an indication of the sub-threshold which has been exceeded, and wherein the data to be temporarily stored is selected based on the sub-threshold exceeded and the priority number.
7. An end station for coupling to a communications network which transfers data in accordance with a transfer priority number, the communications network being adapted to monitor the volume of data being transferred there through and to generate a congestion signal if the respective volume of traffic exceeds a first predetermined threshold, the end station comprising:

a store for storing data;

an interface for coupling the end station to the communications network; and,

PATENT APPLICATION

Daniel.
a processor responsive to the congestion signal to cause the end station to temporarily store at least some of the data to be transferred to the communications network, the data for storage being selected in accordance with the priority number.

A2
9. An end station according to claim 7, wherein the processor generates the data to be transferred.

10. A method of transferring data via a communications network in accordance with a transfer priority number, the network having a number of switching nodes adapted to transfer data transmitted between end stations coupled to the network, the method comprising the steps of:

causing each switching node to monitor the volume of data being transferred therethrough;

comparing the volume of data to a first predetermined threshold;

causing a switching node to generate a congestion signal if the respective volume of traffic exceeds the first predetermined threshold, wherein the adjacent switching nodes and/or end stations are responsive to the congestion signal to temporarily store at least some of the data to be transferred via the respective switching node, the data for storage being selected in accordance with the priority number.

12. A method according to claim 11, wherein the second predetermined threshold corresponds to a lower volume of traffic than the first predetermined threshold.

13. A method according to claim 11, wherein the second predetermined threshold equals the first predetermined threshold.

PATENT APPLICATION

14. A method according to claim 10, wherein each switching node includes a store for temporarily storing data, and wherein the step of monitoring the volume of data being transferred through the switching node comprises monitoring the amount of data stored in the store.
15. A method according to claim 10, wherein the predetermined threshold comprises a number of predetermined sub-thresholds, the congestion signal including an indication of the sub-threshold which has been exceeded, and wherein the data to be temporarily stored is selected based on the sub-threshold exceeded and the priority number.
-

Please add the following new Claims:

16. A communications network according to claim 2, wherein the first predetermined threshold comprises a number of predetermined sub-thresholds, the congestion signal including an indication of the sub-threshold which has been exceeded, and wherein the data to be temporarily stored is selected based on the sub-threshold exceeded and the priority number.
17. A communications network according to claim 4, wherein the first predetermined threshold comprises a number of predetermined sub-thresholds, the congestion signal including an indication of the sub-threshold which has been exceeded, and wherein the data to be temporarily stored is selected based on the sub-threshold exceeded and the priority number.
18. An end station according to claim 8, wherein the processor generates the data to be transferred.
19. A method according to claim 11, wherein each switching node includes a store for temporarily storing data, and wherein the step of monitoring the volume of data being transferred through the switching node comprises monitoring the amount of data stored in the store.

PATENT APPLICATION

20. A method according to claim 11, wherein the predetermined threshold comprises a number of predetermined sub-thresholds, the congestion signal including an indication of the sub-threshold which has been exceeded, and wherein the data to be temporarily stored is selected based on the sub-threshold exceeded and the priority number.

IN THE ABSTRACT OF THE DISCLOSURE:

Please add the following Abstract of the Disclosure, on the next page:

TOKYO ELECTRON LTD.